



Financial Services Audit Committee Communication

Date: December 15, 2023

To: Great Lakes Water Authority Audit Committee

From: William Baker, Financial Management Professional, Construction Accounting & Reporting

Re: FY 2024 Q1 Construction Work-in-Progress Report through September 30, 2023 (Unaudited)

Background: The quarterly construction work-in-progress (CWIP) provides information and analysis related to the execution of the Great Lakes Water Authority capital improvement program (CIP).

Analysis: The attached documents summarize the FY 2024 Q1 CWIP positions and provides a detailed snapshot to inform decision makers and stakeholders.

Proposed Action: Receive and file this report.



**Construction Work-in-Progress Quarterly Report
(Unaudited)**

As of September 30, 2023

For questions, please contact:

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December 15, 2023

To Our Stakeholders:

The contents of this report represent the financial presentation of construction work-in-progress activity for the Great Lakes Water Authority (GLWA) as of September 30, 2023. The information in this report presents a detailed snapshot and is important as we track the execution of the FY 2024–2028 Capital Improvement Plan (CIP) and look to inform decision makers as we evaluate the draft FY 2025–2029 CIP.

As we continue to refine this report to better communicate pertinent information to inform decision makers and stakeholders, content and formatting may be changed. With the summary of active projects now regularly being reported to the Capital Planning Committee the project highlights previously being reported have been removed from this report.

Report Contents and Organization

Construction Work-in-Progress (CWIP) Appendices: Includes breakdown by jurisdiction which provides a summary of the planned and actual project activity by the jurisdictions identified within the FY 2024 – 2028 Board Approved CIP Plan, detailed CWIP rollforward, which lists all projects in the CIP along with financial activity. These tables may be used to revisit priorities, workload, and phasing. In addition, this section contains project amendment summaries which consider the award of CIP contracts and the related execution thereof may result in deviations from the amount and timing of project activity. Project amendments are prepared to fund the related increase or decrease with either an adjustment to Capital Reserve or Program / Allowance accounts to amend the board approved fiscal year CIP accordingly and to inform decision makers in the development of future Capital Improvement Plans.

Financial Information

All project amounts are unaudited. This means that direct contractor costs are generally included in these totals with most pay estimates entered through September 30, 2023. There may, however, be some pay estimates that lag. The totals do not include indirect overhead.

Budget vs. Plan

Generally, GLWA's CIP projects span two or more fiscal years. The GLWA Board of Directors adopts a biennial "budget" and a five-year capital improvement "plan".

- ✓ The adopted **budget** relates to operations and maintenance expense, annual fixed commitments such as debt service, and incremental adjustments to reserves. The budget provides authority to spend within defined amounts. The budget is also referred to as the "revenue requirement" for the utility.
- ✓ After contracts are awarded at amounts variant from the CIP plan and more reliable anticipated spend data becomes available, the amended budget for the current fiscal year may increase or decrease by way of "Capital Reserve" budget amendments.
- ✓ The five-year capital improvement **plan** is a rolling plan that is updated at an administrative tracking level as projects move from estimated to actual bid numbers. An updated mid-cycle CIP would be presented to the Board for approval if the prioritization strategy was revised and/or the plan was in need of material revisions.
- ✓ In addition, the Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established.

Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2024-2028 and related CIP Plan for FY 2024 were based on anticipation of FY 2024 activity resulting in 100% of planned spend for the Water system and 100% of planned spend for the Wastewater system. In December 2023, the Audit Committee received a budget amendment report to amend the Adjusted Capital Spending Ratio (SRA) to 94.0% for the Water system and 82.9% for the Wastewater system.

The Water System spend for the period ending September 30, 2023, is 60.3% of the FY 2024 board approved CIP, 59.1% of the FY 2024 board approved CIP with project amendments, 60.3% of the FY 2024 Approved Capital Spending Rate Assumption (SRA) and 64.2% of the FY 2024 Adjusted Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2024 Board Approved CIP was amended from \$239.3M to \$244.5M is provided in the subsequent Project Amendment Summary appendix of this report.

The Wastewater System spend for the period ending September 30, 2023, is 50.3% of the FY 2024 board approved CIP, 48.0% of the FY 2024 board approved CIP with project amendments, 50.3% of the FY 2024 Approved Capital Spending Rate Assumption (SRA) and 60.6% of the FY 2024 Adjusted Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2024 Board Approved CIP was amended from \$199.0M to \$208.2M is provided in the subsequent Project Amendment Summary appendix of this report.

| Water System Projects | | FY 2023 | FY 2023 Activity | FY 2023 Percentage | FY 2024 | FY 2024 Prorated (Three Months) | FY 2024 Activity (Unaudited) | FY 2024 Percentage |
|--|----|---------|------------------|--------------------|----------|---------------------------------|------------------------------|--------------------|
| (in millions) | | | | | | | | |
| FY 2023 Board Approved CIP | \$ | 194.4 | \$ | 196.3 | 101.0% | | | |
| FY 2023 Board Approved CIP With Project Amendments | | 199.5 | | 196.3 | 98.4% | | | |
| FY 2023 Capital Spend Rate Assumption (SRA) - Approved | | 155.5 | | 196.3 | 126.2% | | | |
| FY 2023 Capital Spend Rate Assumption (SRA) - Adjusted | | 208.0 | | 196.3 | 94.4% | | | |
| FY 2024 Board Approved CIP | | | | | \$ 239.3 | \$ 59.8 | \$ 36.1 | 60.3% |
| FY 2024 Board Approved CIP With Project Amendments | | | | | 244.5 | 61.1 | 36.1 | 59.1% |
| FY 2024 Capital Spend Rate Assumption (SRA) - Approved | | | | | 239.3 | 59.8 | 36.1 | 60.3% |
| FY 2024 Capital Spend Rate Assumption (SRA) - Adjusted | | | | | 224.9 | 56.2 | 36.1 | 64.2% |
| Wastewater System Projects | | FY 2023 | FY 2023 Activity | FY 2023 Percentage | FY 2024 | FY 2024 Prorated (Three Months) | FY 2024 Activity (Unaudited) | FY 2024 Percentage |
| (in millions) | | | | | | | | |
| FY 2023 Board Approved CIP | \$ | 125.9 | \$ | 104.7 | 83.2% | | | |
| FY 2023 Board Approved CIP With Project Amendments | | 136.0 | | 104.7 | 77.0% | | | |
| FY 2023 Capital Spend Rate Assumption (SRA) - Approved | | 94.4 | | 104.7 | 110.9% | | | |
| FY 2023 Capital Spend Rate Assumption (SRA) - Adjusted | | 108.5 | | 104.7 | 96.5% | | | |
| FY 2024 Board Approved CIP | | | | | \$ 199.0 | \$ 49.8 | \$ 25.0 | 50.3% |
| FY 2024 Board Approved CIP With Project Amendments | | | | | 208.2 | 52.1 | 25.0 | 48.0% |
| FY 2024 Capital Spend Rate Assumption (SRA) - Approved | | | | | 199.0 | 49.8 | 25.0 | 50.3% |
| FY 2024 Capital Spend Rate Assumption (SRA) - Adjusted | | | | | 165.0 | 41.2 | 25.0 | 60.6% |

Appendix A - Construction Work-in-Progress Rollforward Summaries by Jurisdiction

The purpose of the construction work-in-progress (CWIP) summary rollforward by jurisdiction is to provide a high-level overview of the financial status of the projects identified within the current board approved CIP by their jurisdiction. Within the FY 2024 – 2028 Board Approved CIP Plan, projects are identified and categorized as either City of Detroit, Wayne County - Outside Detroit, Lapeer County, Oakland County, Saint Clair County or Multiple Counties and reflected accordingly in this report.

\$407.1 million is in CWIP as of September 30, 2023 as shown for the Water System in A1 - Water - CWIP Rollforward by Jurisdiction

\$311.0 million is in CWIP as of September 30, 2023 as show for the Wastewater System in A2 - Wastewater - CWIP Rollforward by Jurisdiction

The order of these appendices on the subsequent pages are in ascending by jurisdiction alphabetically.

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

A1 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward Summary By Jurisdiction

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Jurisdiction | Total Project Plan Estimate | CWIP Balance July 1, 2023 | FY 2024 Board Approved CIP | FY 2024 Board Approved CIP With Project Amendments | FY 2024 Activity through September 30, 2023 | CWIP Balance September 30, 2023 |
|--------------------------------|-----------------------------|---------------------------|----------------------------|--|---|---------------------------------|
| City of Detroit | \$ 638,107,597 | \$ 106,551,466 | \$ 40,250,349 | \$ 40,250,349 | \$ 7,964,121 | \$ 114,515,587 |
| Lapeer County | 143,765,078 | 5,451,155 | 902,113 | 902,113 | (109,021) | 5,342,134 |
| Mutiple Counties | 806,054,995 | 94,920,092 | 103,273,696 | 106,691,396 | 12,067,684 | 106,932,156 |
| Oakland County | 526,779,159 | 101,425,208 | 35,809,598 | 35,122,298 | 10,399,297 | 111,824,505 |
| Saint Clair County | 357,322,501 | 10,362,274 | 16,975,870 | 17,974,870 | 2,300,520 | 12,662,794 |
| Wayne County - Outside Detroit | 1,271,890,345 | 55,533,758 | 42,047,936 | 43,573,336 | 3,480,304 | 55,857,133 |
| Grand Total | \$ 3,743,919,674 | \$ 374,243,953 | \$ 239,259,562 | \$ 244,514,362 | \$ 36,102,906 | \$ 407,134,309 |

Construction Work-in-Progress Quarterly Report

Great Lakes Water Authority

As of September 30, 2023

A2 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward Summary By Jurisdiction

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Jurisdiction | Total Project Plan | | FY 2024 Board | | FY 2024 | | CWIP Balance |
|--------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------|-----------------------|
| | Estimate | CWIP Balance | Board | Approved CIP | Activity through | | |
| | | July 1, 2023 | Approved CIP | With Project | September 30, 2023 | | September 30, 2023 |
| City of Detroit | \$ 2,431,678,757 | \$ 209,701,082 | \$ 129,495,209 | \$ 136,932,909 | \$ 11,682,439 | \$ | \$ 218,784,438 |
| Mutiple Counties | 1,503,643,833 | 78,549,059 | 69,338,051 | 71,068,551 | 13,276,574 | | 91,825,633 |
| Wayne County - Outside Detroit | 139,547,775 | 438,459 | 227,885 | 227,885 | 489 | | 438,949 |
| Grand Total | \$ 4,074,870,364 | \$ 288,688,600 | \$ 199,061,145 | \$ 208,229,345 | \$ 24,959,503 | \$ | \$ 311,049,020 |

Appendix B - Construction Work-in-Progress Rollforwards

The purpose of the construction work-in-progress (CWIP) rollforward is to analyze the current year activity for each project in relation to the overall capital improvement program as well as the project portfolio overall.

As part of our project life cycle review the Construction Accounting team identifies when it is appropriate for projects to be capitalized. Projects are to be capitalized when they have been completed in totality or are inclusive of identifiable assets that have been placed in service. Capitalization of project cost occurred in the FY 2024 1st quarter for the following projects:

| <u>Project</u> | <u>Contract</u> | <u>Description</u> |
|----------------|-----------------|---|
| 211002 | PC-795 | Pump Station No. 2 Pumping Improvements |
| 113006 | 2002193 | SW WTP Chlorine Scrubber |

\$407.1 million is in CWIP as of September 30, 2023, as shown for the Water System in B1 - Water - Detailed CWIP Rollforward

\$311.0 million is in CWIP as of September 30, 2023, as shown for the Wastewater System in B2 - Wastewater - Detailed CWIP Rollforward

The order of these appendices on the subsequent pages are in ascending order by Project Category followed by CIP project number.

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B1 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Total Project Plan Estimate | FY 2024 Board Approved CIP | FY 2024 Board Approved CIP With Project Amendments | CWIP Balance July 1, 2023 | FY 2024 Activity through September 30, 2023 | FY 2024 Capitalizations And Other | CWIP Balance September 30, 2023 | Life to Date Capitalizations And Other | Life to Date Activity Through September 30, 2023 | Life to Date Activity / Total Project Plan Estimate |
|-------------------------------------|-----------------------------|----------------------------|--|---------------------------|---|-------------------------------------|---------------------------------|--|--|---|
| | | | | | | Activity Through September 30, 2023 | | Activity | | |
| Field Services - Water | 605,748,307 | 121,118,374 | 121,491,874 | 119,596,676 | 19,246,742 | - | 138,843,417 | 98,677,166 | 237,520,583 | 39% |
| Programs - Water | 563,390,417 | 21,421,981 | 24,839,681 | 50,259,310 | 3,224,918 | 55,620 | 53,428,608 | 32,388,171 | 85,816,778 | 15% |
| Security | 5,258,442 | - | - | - | - | - | - | 10,357,757 | 10,357,757 | 197% |
| Systems Control Center | 738,918,834 | 10,385,609 | 9,894,909 | 53,505,887 | 1,105,255 | - | 54,611,142 | 5,973,851 | 60,584,993 | 8% |
| Water Treatment Plants & Facilities | 1,797,962,260 | 85,654,045 | 87,608,345 | 150,882,080 | 12,525,992 | 3,156,930 | 160,251,142 | 204,602,700 | 364,853,842 | 20% |
| Programs - Centralized Services | 32,634,746 | 679,554 | 679,554 | - | - | - | - | - | - | 0% |
| Energy Mangement | 6,667 | - | - | - | - | - | - | - | - | 0% |
| Grand Total | 3,743,919,674 | 239,259,562 | 244,514,362 | 374,243,953 | 36,102,906 | 3,212,550 | 407,134,309 | 351,999,644 | 759,133,953 | 20% |

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B2 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Total Project Plan Estimate | FY 2024 Board Approved CIP | FY 2024 Board Approved CIP With Project Amendments | CWIP Balance July 1, 2023 | FY 2024 Activity through September 30, 2023 | FY 2024 Capitalizations And Other Activity Through September 30, 2023 | CWIP Balance September 30, 2023 | Life to Date Capitalizations And Other Activity | Life to Date Activity through September 30, 2023 | Life to Date Activity / Total Project Plan Estimate |
|----------------------------------|-----------------------------|----------------------------|--|---------------------------|---|---|---------------------------------|---|--|---|
| | | | | | | | | | | |
| CSO Facilities | 223,462,073 | 9,578,136 | 9,578,136 | 5,277,057 | 2,368,174 | - | 7,645,231 | 737,296 | 8,382,527 | 4% |
| Facilities | 1,123,056 | - | - | - | - | - | - | 1,123,056 | 1,123,056 | 100% |
| Field Services - Wastewater | 203,493,821 | 19,775,025 | 19,775,025 | 53,673,024 | 1,618,724 | - | 55,291,748 | - | 55,291,748 | 27% |
| Programs | 1,598,544,588 | 92,767,210 | 94,497,710 | 95,169,871 | 15,820,232 | - | 110,990,104 | 46,853,855 | 157,843,959 | 10% |
| Programs - Water | - | - | - | - | - | - | - | 83,000 | 83,000 | 0% |
| Security | 2,362,970 | - | - | - | - | - | - | 3,200,851 | 3,200,851 | 135% |
| Systems Control Center | 591,551,929 | 24,295,387 | 24,295,387 | 56,087,591 | 915,779 | - | 57,003,370 | 6,103,686 | 63,107,056 | 11% |
| Water Resource Recovery Facility | 1,454,331,929 | 52,645,387 | 60,083,087 | 78,481,057 | 4,236,594 | 2,599,083 | 80,118,568 | 169,516,960 | 249,635,527 | 17% |
| Grand Total | 4,074,870,364 | 199,061,145 | 208,229,345 | 288,688,600 | 24,959,503 | 2,599,083 | 311,049,020 | 227,618,704 | 538,667,724 | 13% |

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority
B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Project | Project Name | Total Project Plan Estimate | FY 2024 Board Approved CIP | FY 2024 Board Approved With Project Amendments | CWIP Balance July 1, 2023 | FY 2024 Activity through September 30, 2023 | FY 2024 Capitalizations And Other Activity Through September 30, 2023 | CWIP Balance September 30, 2023 | Life to Date Capitalizations And Other Activity | Life to Date Activity Through September 30, 2023 | Life to Date Activity / Total Project Plan Estimate |
|-------------------------------|-------------------------------------|--|-----------------------------|----------------------------|--|---------------------------|---|---|---------------------------------|---|--|---|
| | | | | Approved CIP | | | | | | | | |
| Field Services - Water | 122003 | New Waterworks Park to Northeast Transmission Main | 38,764,909 | 144,420 | 144,420 | - | - | - | - | 29,790,267 | 29,790,267 | 77% |
| | 122004 | 96-inch Main Relocation, Isolation Valves Installations, and New Parallel Main | 235,133,772 | 85,217,371 | 85,217,371 | 50,857,698 | 9,537,789 | - | 60,395,487 | 148,741 | 60,544,228 | 26% |
| | 122005 | Replacement Schoolcraft Watermain | 18,645,713 | - | - | 3,396,485 | (98,957) | - | 3,297,529 | 13,656,834 | 16,954,363 | 91% |
| | 122006 | Transmission System Water Main Work-Wick Road Parallel Water Main | 26,261,331 | - | 373,500 | 4,301,439 | 144,532 | - | 4,445,971 | 20,751,264 | 25,197,234 | 96% |
| | 122007 | Design and Construction of a new Newburgh Road 24" Main along Newburgh Road between Ch | 26,209,246 | - | - | - | - | - | - | - | - | 0% |
| | 122011 | Park-Merriman Water Main-Final Phase | 10,202,576 | - | - | - | - | - | - | 6,832,945 | 6,832,945 | 67% |
| | 122012 | 36-inch Water Main in Telegraph Road | 9,986,284 | - | - | - | - | - | - | 9,986,284 | 9,986,284 | 100% |
| | 122013 | Lyon Township Transmission Main Extension Project | 113,979,416 | 27,027,177 | 27,027,177 | 57,111,557 | 9,228,540 | - | 66,340,097 | 17,510,830 | 83,850,927 | 74% |
| | 122016 | Downriver Transmission Loop | 69,991,506 | 5,308,831 | 5,308,831 | 2,831,943 | 119,764 | - | 2,951,707 | - | 2,951,707 | 4% |
| | 122017 | 7 Mile/Nevada Transmission Main Rehab and Carrie/Nevada Flow Control Station | 13,118,300 | 3,389,881 | 3,389,881 | - | 315,073 | - | 315,073 | - | 315,073 | 2% |
| | 122018 | Garland, Hurlbut, Bewick Water Transmission System Rehabilitation | 3,319,270 | 30,693 | 30,693 | - | - | - | - | - | - | 0% |
| | 122019 | Jefferson Main Replacement | 40,135,983 | - | - | 1,097,554 | - | - | 1,097,554 | - | 1,097,554 | 3% |
| | Field Services - Water Total | | 605,748,307 | 121,118,374 | 121,491,874 | 119,596,676 | 19,246,742 | - | 138,843,417 | 98,677,166 | 237,520,583 | 39% |
| Programs - Water | 170102 | Water Production Plant Flow Metering Improvements at NE, SP & SW WTP | 373,640 | - | - | - | - | - | - | 373,640 | 373,640 | 100% |
| | 170109 | Inspection of Raw Water Intakes and Tunnels | 1,787,968 | - | - | - | - | - | - | - | - | 0% |
| | 170300 | Water Treatment Plant Automation Program | 23,317,393 | - | - | - | - | - | - | - | - | 0% |
| | 170301 | Water Plant Automation | 1,755,142 | - | - | - | - | - | - | - | - | 0% |
| | 170302 | SW WTP SCADA Improvements | 8,284,006 | 4,731,318 | 4,731,318 | 5,541,977 | 691,778 | - | 6,233,755 | - | 6,233,755 | 75% |
| | 170303 | WWP WTP Power Monitoring Installation | 1,862,773 | - | - | - | - | - | - | 1,811,356 | 1,811,356 | 97% |
| | 170304 | WWP WTP SCADA Upgrade | 500,906 | - | - | 654,940 | (3,956) | - | 650,984 | - | 650,984 | 130% |
| | 170305 | WWP SCADA Network Upgrade | 7,542,009 | - | - | - | - | - | - | - | - | 0% |
| | 170306 | SPW SCADA PLC Network Upgrade | 6,780,215 | - | - | - | - | - | - | - | - | 0% |
| | 170400 | Water Transmission Improvement Program | 32,174,788 | - | - | - | - | - | - | - | - | 0% |
| | 170401 | Emergency Bypass Around Ypsilanti Station | 2,633,282 | - | - | - | - | - | - | 2,633,282 | 2,633,282 | 100% |
| | 170500 | Transmission System Valve Assessment and Rehabilitation/Replacement Program | 59,296,473 | 1,616,517 | (83) | - | - | - | - | - | - | 0% |
| | 170502 | Transmission System Valve Assessment and Rehabilitation/Replacement A | 5,608,711 | - | - | - | - | - | - | 7,689,584 | 7,689,584 | 137% |
| | 170503 | Transmission System Valve Assessment and Rehabilitation/Replacement B | 14,966,270 | 919,721 | 3,789,621 | 13,180,210 | 649,437 | - | 13,829,648 | - | 13,829,648 | 92% |
| | 170504 | Repair of WTM, Valves, & Priority Repair | 18,400,000 | 549,168 | 2,713,568 | 9,219,808 | 461,439 | - | 9,681,247 | - | 9,681,247 | 53% |
| | 170600 | Water Transmission Main Asset Assessment Program | 80,112,552 | 30,935 | 30,935 | - | - | - | - | - | - | 0% |
| | 170601 | Linear System Integrity Program | 47,607,411 | 111,943 | 111,943 | - | - | - | - | - | - | 0% |
| | 170801 | Reservoir Inspection, Design and Rehabilitation | 25,385,252 | 2,570,361 | 2,570,361 | 14,494,537 | 1,265,629 | 55,620 | 15,704,546 | 8,822,454 | 24,526,999 | 97% |
| | 170802 | Reservoir Inspection, Design | 47,175,002 | 9,292,018 | 9,292,018 | 2,460,276 | 153,390 | - | 2,613,666 | - | 2,613,666 | 6% |
| | 170803 | Reservoir Inspection, Design, and Construction Mangement Services Phase III | 94,432,172 | - | - | - | - | - | - | - | - | 0% |
| | 170900 | Suburban Water Meter Pit Rehabilitation and Meter Replacement Program | 33,108,255 | - | - | - | - | - | - | - | - | 0% |
| | 170901 | Suburban Water Meter Pit Rehabilitation and Meter Replacement | 12,410,811 | - | - | 4,707,563 | - | - | 4,707,563 | 7,703,013 | 12,410,576 | 100% |
| | 170902 | Brownstown Meter Pit Rehabilitation | 175,992 | - | - | - | - | - | - | - | - | 0% |
| | 170904 | Phase II Wholesale Water Meter Pit Rehab | 15,686,352 | 1,600,000 | 1,600,000 | - | 7,200 | - | 7,200 | - | 7,200 | 0% |
| | 171500 | Roof Replacement - Var Facilities Program | 15,948,441 | - | - | - | - | - | - | - | - | 0% |
| | 171501 | Roof Replacements - Var Facilities Program | 3,354,843 | - | - | - | - | - | - | 3,354,843 | 3,354,843 | 100% |
| | 171502 | Lake Huron and Southwest Roof Replacement | 2,709,759 | - | - | - | - | - | - | - | - | 0% |
| Programs - Water Total | | | 563,390,417 | 21,421,981 | 24,839,681 | 50,259,310 | 3,224,918 | 55,620 | 53,428,608 | 32,388,171 | 85,816,778 | 15% |
| Security | 341001 | Security Infrastructure Improvements | 5,258,442 | - | - | - | - | - | - | 10,357,757 | 10,357,757 | 197% |
| Security Total | | | 5,258,442 | - | - | - | - | - | - | 10,357,757 | 10,357,757 | 197% |
| Systems Control Center | 132003 | Isolation Gate Valves for Line Pumps for West Service Center Pumping Station | 1,742,479 | - | - | - | - | - | - | 1,742,479 | 1,742,479 | 100% |
| | 132006 | Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica | 3,227,776 | - | - | - | - | - | - | 3,226,045 | 3,226,045 | 100% |
| | 132007 | Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station | 5,754,204 | 902,113 | 902,113 | 5,180,944 | (109,021) | - | 5,071,923 | - | 5,071,923 | 88% |
| | 132010 | West Service Center/Duval Rd Division Valve Upgrades | 47,770,838 | 4,758,831 | 4,071,531 | 42,921,051 | 749,592 | - | 43,670,643 | - | 43,670,643 | 91% |
| | 132012 | Ypsilanti PS Improvements | 43,394,088 | 701,075 | 897,675 | 2,443,545 | 43,301 | - | 2,486,846 | - | 2,486,846 | 6% |
| | 132014 | Adams Road Booster Pumping Improvements | 61,777,803 | - | - | 102,450 | - | - | 102,450 | - | 102,450 | 0% |
| | 132015 | Newburgh BPS | 46,396,137 | - | - | 1,232,925 | 218 | - | 1,233,143 | 30,000 | 1,263,143 | 3% |
| | 132016 | North Service Center BPS Improvements | 239,583,663 | 4,023,590 | 4,023,590 | 1,195,463 | 421,165 | - | 1,616,628 | - | 1,616,628 | 1% |
| | 132018 | Schoolcraft BPS | 24,690,695 | - | - | - | - | - | - | - | - | 0% |
| | 132019 | Wick Road BPS - Switchgear | 24,788,064 | - | - | 64,610 | - | - | 64,610 | - | 64,610 | 0% |
| | 132020 | Franklin BPS - Isolation Gate Valves | 60,919,247 | - | - | 94,688 | - | - | 94,688 | - | 94,688 | 0% |
| | 132021 | Imlay BPS - Replace VFDs, Pumps & Motors | 138,010,874 | - | - | 270,211 | - | - | 270,211 | - | 270,211 | 0% |
| | 132022 | Joy Road BPS - Replace Reservoir Pumps | 39,857,253 | - | - | - | - | - | - | - | - | 0% |
| | 132025 | Northwest Booster Station Yard Piping Improvements | 19,335 | - | - | - | - | - | - | - | - | 0% |
| | 132026 | Franklin Pumping Station Valve Replacement | 986,376 | - | - | - | - | - | - | 975,327 | 975,327 | 99% |

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority
B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Project | Project Name | Total Project Plan Estimate | FY 2024 Board Approved CIP | FY 2024 Board Approved CIP With Project Amendments | CWIP Balance July 1, 2023 | FY 2024 Activity through September 30, 2023 | FY 2024 | CWIP Balance September 30, 2023 | Life to Date | Life to Date Activity Through September 30, 2023 | Life to Date |
|---|---|---|-----------------------------|----------------------------|--|---------------------------|---|---|---------------------------------|------------------------------------|--|---|
| | | | | | | | | Capitalizations And Other Activity Through September 30, 2023 | | Capitalizations And Other Activity | | Life to Date Activity / Total Project Plan Estimate |
| Systems Control Center Total | | | 738,918,834 | 10,385,609 | 9,894,909 | 53,505,887 | 1,105,255 | - | 54,611,142 | 5,973,851 | 60,584,993 | 8% |
| Water Treatment Plants & Facilities | 111001 | Energy Management: Lake Huron Water Treatment Plant Low Lift Pumping Improvements | 140,410,608 | 1,553,101 | 1,553,101 | 3,536,463 | 125,558 | - | 3,662,020 | - | 3,662,020 | 3% |
| | 111002 | LHWTP Backflow Replacement | 8,717,768 | - | - | - | - | - | - | 8,717,768 | 8,717,768 | 100% |
| | 111004 | Electrical Tunnel Rehabilitation at Lake Huron WTP | 3,806,475 | - | - | - | - | - | - | 3,892,299 | 3,892,299 | 102% |
| | | Water Supply Pumping Assessment Study | 85,824 | - | - | - | - | - | - | - | - | 0% |
| | 111006 | Replacement of Filter Instrumentation and Raw Water Flow Metering Improvements at Lake | 40,356,342 | 1,026,425 | 2,025,425 | 1,381,273 | 459,295 | - | 1,840,568 | - | 1,840,568 | 5% |
| | 111007 | Lake Huron WTP-Raw Sludge Clarifier and Raw Sludge Pumping System Improvements | 8,867,103 | - | - | - | - | - | - | 8,867,103 | 8,867,103 | 100% |
| | 111008 | LHWTP Architectural Programming - Lab | 782,112 | - | - | - | - | - | - | - | - | 0% |
| | 111009 | Lake Huron WTP-35 MGD HLP, Flow Meters | 31,003,499 | 12,609,506 | 12,609,506 | 4,699,252 | 1,631,396 | - | 6,330,648 | - | 6,330,648 | 20% |
| | 111010 | Lake Huron Water Treatment Plant -Filtration and Pretreatment Improvements | 58,638,596 | - | - | - | - | - | - | - | - | 0% |
| | 111011 | Lake Huron WTP Pilot Plant | 3,267,770 | - | - | - | - | - | - | 3,076,105 | 3,076,105 | 94% |
| | 111012 | LHWTP-Flocculation Improvements | 51,331,404 | 1,786,838 | 1,786,838 | 741,978 | 84,271 | - | 826,249 | - | 826,249 | 2% |
| | 111013 | LH WTP Fireloop & Plant Water Improvements | 10,055,000 | - | - | 3,308 | - | - | 3,308 | - | 3,308 | 0% |
| | 112001 | Yard Piping Replacement at Northeast Water Treatment Plant | 0 | - | - | - | - | - | - | - | - | 0% |
| | 112002 | Low Lift Pumping Plant Caisson Rehabilitation at Northeast WTP | 1,169,962 | - | - | - | - | - | - | 1,169,962 | 1,169,962 | 100% |
| | 112003 | NE WTP High Lift Pumping Electrical | 171,678,100 | - | - | 557,608 | 123 | - | 557,731 | - | 557,731 | 0% |
| | 112005 | Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits | 937,879 | - | - | - | - | - | - | 937,879 | 937,879 | 100% |
| | 112006 | Northeast Water Treatment Plant Flocculator Replacements | 13,446,475 | 2,637,134 | 2,637,134 | 4,066,122 | 490,984 | - | 4,557,106 | - | 4,557,106 | 34% |
| | 112007 | NE WTP Structural Repair of Slab and Bea | 6,685,115 | 140,039 | 140,039 | 235,924 | - | - | 235,924 | - | 235,924 | 4% |
| | 113001 | Southwest Water Treatment Plant, Sludge Treatment & Waste Wash water Treatment Facilit | 23,765 | - | - | - | - | - | - | 171,079 | 171,079 | 720% |
| | 113002 | High Lift Pump Discharge Valve Actuators Replacement at Southwest WTP | 5,798,925 | - | - | - | - | - | - | 5,798,535 | 5,798,535 | 100% |
| | 113003 | Replacement of Butterfly Valves | 162,109,919 | - | - | - | - | - | - | - | - | 0% |
| | 113006 | SW WTP Chloring Scrubber | 7,326,664 | 12,674 | 12,674 | 3,156,493 | 436 | 3,156,930 | - | 6,108,070 | 6,108,070 | 83% |
| | 113007 | Architectural and Building Mechanical | 8,640,647 | - | - | - | - | - | - | - | - | 0% |
| | 113009 | SW WTP Flight and Chain Upgrades | 5,127,222 | 1,454,020 | 1,454,020 | 20,182 | - | - | 20,182 | - | 20,182 | 0% |
| | 114001 | Springwells Water Treatment Plant 1958 Filter Rehabilitation and Auxiliary Facilities | 99,764,892 | - | - | - | - | - | - | 99,764,892 | 99,764,892 | 100% |
| | 114002 | Springwells Water Treatment Plant - Low Lift and High Lift Pump Station | 315,711,970 | 22,554,711 | 22,554,211 | 26,617,698 | 2,053,261 | - | 28,670,959 | - | 28,670,959 | 9% |
| | 114003 | Water Production Flow Metering Improvements at NE, SW, and SPW WTP | 8,208,286 | - | - | - | - | - | - | 8,167,884 | 8,167,884 | 100% |
| | 114005 | Springwells WTP Admin Building Improvements | 7,138,425 | - | - | 1,320,522 | - | - | 1,320,522 | - | 1,320,522 | 18% |
| | 114008 | 1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP | 14,105,567 | - | - | 404,500 | 41,900 | - | 446,399 | 11,738,479 | 12,184,878 | 86% |
| | 114010 | Yard Piping Improvements | 218,637,731 | - | - | 1,807,946 | - | - | 1,807,946 | - | 1,807,946 | 1% |
| | 114011 | Steam, Condensate Return, and Compressed Air Piping Improvements at Springwells WTP | 28,264,192 | 1,281,100 | 1,281,100 | 1,328,244 | 418,586 | - | 1,746,830 | 24,356,450 | 26,103,279 | 92% |
| | 114012 | Springwells Water Treatment Plant 1930 Filter Building-Roof Replacement | 3,911,148 | - | - | - | - | - | - | 3,911,148 | 3,911,148 | 100% |
| | 114013 | Springwells Reservoir Fill Line Improvements | 4,731,850 | - | - | - | - | - | - | 4,706,751 | 4,706,751 | 99% |
| | 114016 | Springwells Water Treatment Plant 1958 Settled Water Conduits Concrete Pavement Replacement | 1,567,531 | - | - | - | - | - | - | 1,566,470 | 1,566,470 | 100% |
| | 114017 | Springwells Water Treatment Plant Flocculator Drive Replacement | 27,798,446 | 6,004,206 | 6,960,006 | 1,065,249 | 65,485 | - | 1,130,734 | - | 1,130,734 | 4% |
| | 114018 | Springwells Water Treatment Plant - Service Building Electrical Substation and Miscellaneous Improvements | 2,340,568 | - | - | - | - | - | - | - | - | 0% |
| 115001 | Yard Piping, Valves and Venturi Meters Replacement at Water Works Park | 56,073,058 | 10,657,254 | 10,657,254 | 29,220,784 | 2,629,984 | - | 31,850,768 | - | 31,850,768 | 57% | |
| 115003 | Comprehensive Condition Assessment at Waterworks Park WTP | 514,004 | - | - | - | - | - | - | - | - | 0% | |
| 115004 | Water Works Park WTP Chlorine System Upgrade | 6,966,596 | - | - | - | - | - | - | 6,966,596 | 6,966,596 | 100% | |
| 115005 | WWP WTP Building Ventilation Improvements | 16,541,211 | 5,579,579 | 5,579,579 | 5,941,878 | 3,018,986 | - | 8,960,864 | - | 8,960,864 | 54% | |
| 115006 | Water Works Park Site/Civil Improvements | 5,895,650 | - | - | - | - | - | - | - | - | 0% | |
| 115007 | Water Works Park High Lift Pumping Station Modernization | 115,089,667 | - | - | - | - | - | - | - | - | 0% | |
| 115009 | Water Works Park Sedimentation Basins Structural Upgrades | 16,845,902 | - | - | - | - | - | - | - | - | 0% | |
| 116002 | Pennsylvania, Springwells and Northeast Raw Water Supply Tunnel Improvements based on | 99,061,811 | 15,334,209 | 15,334,209 | 64,619,456 | 1,452,049 | - | 66,071,504 | 4,685,231 | 70,756,736 | 71% | |
| 116005 | Belle Isle Seawall Rehabilitation | 2,294,679 | 737,140 | 737,140 | 157,201 | 53,678 | - | 210,879 | - | 210,879 | 9% | |
| 116006 | Belle Isle Intake System Rehabilitation and Improvements | 2,221,841 | - | - | - | - | - | - | - | - | 0% | |
| 116007 | System Electrical Power Improvements | 4,010,060 | 2,286,109 | 2,286,109 | - | - | - | - | - | - | 0% | |
| Water Treatment Plants & Facilities Total | | | 1,797,962,260 | 85,654,045 | 87,608,345 | 150,882,080 | 12,525,992 | 3,156,930 | 160,251,142 | 204,602,700 | 364,853,842 | 20% |

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority
B3 - Water System Construction Work-in-Progress (CWIP) FY 2024 Rollforward
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Project | Project Name | Total Project Plan Estimate | FY 2024 Board Approved CIP | FY 2024 Board Approved CIP With Project Amendments | CWIP Balance July 1, 2023 | FY 2024 Activity through September 30, 2023 | FY 2024 Capitalizations And Other Activity Through September 30, 2023 | CWIP Balance September 30, 2023 | Life to Date Capitalizations And Other Activity | Life to Date Activity Through September 30, 2023 | Life to Date Activity / Total Project Plan Estimate |
|---------------------------------------|---------|--|-----------------------------|----------------------------|--|---------------------------|---|---|---------------------------------|---|--|---|
| Programs - Centralized Services | 380700 | As-needed Engineering Services for Concrete Testing, Geotechnical Soil Borings, other Testing Services, and Related Services Allowance | 10,820 | - | - | - | - | - | - | - | - | 0% |
| | 381000 | Energy Management: Electric Metering Improvement Program | 5,125,444 | 679,554 | 679,554 | - | - | - | - | - | - | 0% |
| | 381001 | | 2,498,482 | - | - | - | - | - | - | - | - | 0% |
| | 383300 | Masonry Replacement and Rehabilitation Program | 25,000,001 | - | - | - | - | - | - | - | - | 0% |
| Programs - Centralized Services Total | | | 32,634,746 | 679,554 | 679,554 | - | - | - | - | - | - | 0% |
| Energy Mangement | 351001 | Water Facility Lighting Renovations | 6,667 | - | - | - | - | - | - | - | - | 0% |
| Energy Mangement Total | | | 6,667 | - | - | - | - | - | - | - | - | 0% |
| Grand Total | | | 3,743,919,674 | 239,259,562 | 244,514,362 | 374,243,953 | 36,102,906 | 3,212,550 | 407,134,309 | 351,999,644 | 759,133,953 | 20% |

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B4 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Project | Project Name | Total Project Plan Estimate | FY 2024 Board Approved CIP | | | Activity through September 30, 2023 | FY 2024 Capitalizations And Other | | CWIP Balance September 30, 2023 | Life to Date Capitalizations And Other Activity | Life to Date Activity through September 30, 2023 | Life to Date Activity / Total Project Plan Estimate |
|-----------------------------------|---------|--|-----------------------------|----------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------------------|------------|---------------------------------|---|--|---|
| | | | | FY 2024 Board Approved CIP | With Project Amendments | CWIP Balance July 1, 2023 | | Activity Through September 30, 2023 | | | | | |
| CSO Facilities | 270001 | Pilot CSO Netting Facility | 37,884,356 | - | - | 2,207 | 7,373 | - | - | 9,581 | - | 9,581 | 0% |
| | 270002 | Meldrum Sewer Diversion and VR-15 Improvements | 6,400,507 | - | - | - | - | - | - | - | - | - | 0% |
| | 270003 | Long Term CSO Control Plan | 12,058,497 | 2,268,939 | 2,268,939 | - | 159,002 | - | 159,002 | - | - | 159,002 | 1% |
| | 270004 | Oakwood Lieb CSO Facility Improvement | 42,595,642 | 2,284,906 | 2,284,906 | 2,070,852 | 547,366 | - | 2,618,218 | - | - | 2,618,218 | 6% |
| | 270006 | Control System Upgrades - Baby Creek/Belle | 20,538,416 | 1,477,523 | 1,477,523 | 1,103,959 | 496,371 | - | 1,600,329 | - | - | 1,600,329 | 8% |
| | 270007 | Disinfection System Improvements at CSO | 8,345,855 | - | - | 1,247 | 8,114 | - | 9,361 | - | - | 9,361 | 0% |
| | 270008 | Flushing System Improvements at Conner Creek and St. Aubin CSO Facilities | 7,070,077 | - | - | - | - | - | - | - | - | - | 0% |
| | 270009 | Site Improvements at St. Aubin, Belle Isle, and Baby Creek CSO Facilities | 1,389,999 | - | - | - | - | - | - | - | - | - | 0% |
| | 270010 | HVAC Improvements at Puritan Fenkell and Seven Mile CSO Facilities | 1,579,434 | 15,754 | 15,754 | 8,756 | 7,776 | - | 16,532 | - | - | 16,532 | 1% |
| | 270011 | HVAC Improvements at Conner Creek and Belle Isle CSO Facilities | 418,049 | - | - | - | - | - | - | - | - | - | 0% |
| | 270012 | Control System Upgrades at Conner Creek, Oakwood, and Puritan Fenkell CSO Facilities | 5,974,808 | - | - | - | - | - | - | - | - | - | 0% |
| | 270013 | Facility Improvements at Puritan Fenkell and Seven Mile CSO Facilities | 902,132 | - | - | - | - | - | - | - | - | - | 0% |
| | 270014 | Convert to Complete Capture Basin CSO Fa | 4,482,478 | - | - | - | - | - | - | - | - | - | 0% |
| | 273001 | Hubbell Southfield CSO Facility Improvement | 54,621,097 | 227,885 | 227,885 | 438,459 | 489 | - | 438,949 | - | - | 438,949 | 1% |
| CSO Facilities Total | 273002 | CSO Hubbell Southfield VR-8 Gate Improvements | 1,785,839 | - | - | - | - | - | - | - | - | - | 0% |
| | 276002 | Replacement Make-up Air Unit at CON | 357,212 | - | - | 611 | - | - | 611 | 347,996 | - | 348,607 | 98% |
| | 277001 | Baby Creek Outfall Improvements Project | 16,312,714 | 3,303,128 | 3,303,128 | 1,650,965 | 1,141,682 | - | 2,792,647 | 389,300 | - | 3,181,947 | 20% |
| | 277002 | Baby Creek CSO Facility Influent Flushing System | 744,959 | - | - | - | - | - | - | - | - | - | 0% |
| | | | 223,462,073 | 9,578,136 | 9,578,136 | 5,277,057 | 2,368,174 | - | 7,645,231 | 737,296 | - | 8,382,527 | 4% |
| Facilities | 331002 | Roofing Systems Replacement at GLWA Wastewater Treatment Plant, CSO Retention Treatment Basins (RTB) and Screening Disinfection Facilities (SDF) | 1,123,056 | - | - | - | - | - | - | 1,123,056 | - | 1,123,056 | 100% |
| Facilities Total | | | 1,123,056 | - | - | - | - | - | - | 1,123,056 | - | 1,123,056 | 100% |
| Field Services - Wastewater | 222001 | Intercommunity Relief Sewer Modifications in Detroit Oakwood District | 81,428,171 | - | - | 2,609,882 | 22,063 | - | 2,631,945 | - | - | 2,631,945 | 3% |
| | 222002 | Detroit River Interceptor Evaluation and Rehabilitation | 117,561,404 | 17,254,477 | 17,254,477 | 51,063,141 | 1,596,661 | - | 52,659,803 | - | - | 52,659,803 | 45% |
| | 222004 | Collection System Valve Remote Operation Structures Improvements | 4,246 | - | - | - | - | - | - | - | - | - | 0% |
| | 222008 | North Interceptor East Arm (NIEA) | 4,500,000 | 2,520,548 | 2,520,548 | - | - | - | - | - | - | - | 0% |
| Field Services - Wastewater Total | | | 203,493,821 | 19,775,025 | 19,775,025 | 53,673,024 | 1,618,724 | - | 55,291,748 | - | - | 55,291,748 | 27% |
| Programs | 260200 | Sewer and Interceptor Evaluation and Rehabilitation Program | 9,171,910 | 17,224 | 17,224 | - | - | - | - | - | - | - | 0% |
| | 260201 | Conveyance System Interceptor Rehab | 41,527,234 | 1,107,291 | 1,107,291 | 20,225,624 | 92,326 | - | 20,317,950 | 18,542,127 | - | 38,860,077 | 94% |
| | 260202 | Conveyance System Interceptor Rehab | 4,457 | - | - | 1,904 | - | - | 1,904 | - | - | 1,904 | 43% |
| | 260204 | Energy Services for Rehabilitation of Conveyance Sewer System | 57,525,481 | 16,922,618 | 17,695,018 | 10,043,555 | 2,338,161 | - | 12,381,716 | - | - | 12,381,716 | 22% |
| | 260205 | NWI Outfall Rehabilitation | 7,734,426 | 4,232,450 | 4,232,450 | 2,303,696 | 1,471,870 | - | 3,775,566 | - | - | 3,775,566 | 49% |
| | 260206 | Conveyance System Rehabilitation - Interceptors | 23,141,361 | 8,166,750 | 8,166,750 | 1,197,436 | 869,312 | - | 2,066,748 | - | - | 2,066,748 | 9% |
| | 260207 | Rehabilitation of Woodward Sewer System | 23,229,319 | 6,721,768 | 7,216,568 | 12,008,292 | 2,879,569 | - | 14,887,860 | - | - | 14,887,860 | 64% |
| | 260208 | Linwood/Lonyo/Ashland/2nd Ave/Shiawassee | 36,754 | - | - | - | - | - | - | - | - | - | 0% |
| | 260209 | Sewer Repair Contract - As Needed | 14,965,035 | 7,479,694 | 7,479,694 | 2,098,083 | 592,401 | - | 2,690,484 | - | - | 2,690,484 | 18% |
| | 260210 | Linwood/Lonyo/Ashland/2nd Ave/Shiawassee | 36,341,245 | 1,521,537 | 1,521,537 | 320,171 | 364,945 | - | 685,116 | - | - | 685,116 | 2% |
| | 260500 | CSO Outfall Rehab | 7,636,110 | - | - | - | - | - | - | - | - | - | 0% |
| | 260504 | Rehabilitation of Outfalls - Phase II | 4,923,589 | - | - | - | - | - | - | 4,923,589 | - | 4,923,589 | 100% |
| | 260505 | Rehabilitation of Outfalls - Phase IV | 5,709,224 | - | - | - | - | - | - | 5,709,659 | - | 5,709,659 | 100% |
| | 260506 | Pilot Regulator Orifice Expansion | (78,641) | - | - | - | - | - | - | - | - | - | 0% |
| | 260508 | B-39 Outfall Rehab | 10,705,611 | 4,377,004 | 4,377,004 | 6,031,942 | 1,363,641 | - | 7,395,583 | - | - | 7,395,583 | 69% |
| | 260509 | B-40 Outfall Rehab | 112,591 | - | - | 112,591 | - | - | 112,591 | - | - | 112,591 | 100% |
| | 260510 | Conveyance System Rehabilitation - Outfalls | 24,947,182 | 4,826,857 | 4,826,857 | 1,871,607 | 292,352 | - | 2,163,959 | - | - | 2,163,959 | 9% |
| | 260600 | CSO Facilities Improvements | 1,021,441,117 | 2,120,493 | 2,120,493 | - | - | - | - | - | - | - | 0% |
| | 260601 | Oakwood Drain Valve Improvements | 804,574 | - | - | - | - | - | - | 804,574 | - | 804,574 | 100% |
| | 260602 | CSO Fire Alarm System Improvements | 1,017,691 | - | - | - | - | - | - | 997,619 | - | 997,619 | 98% |
| | 260603 | Conner Creek CSO Basin Rehab | 7,982,176 | - | - | - | - | - | - | 7,675,407 | - | 7,675,407 | 96% |
| | 260606 | Puritan Fenkell Roof Replacement | 346,540 | - | - | - | - | - | - | 346,540 | - | 346,540 | 100% |
| | 260607 | Lieb SDF Electrical Improvements | 1,032,508 | - | - | - | - | - | - | 1,032,508 | - | 1,032,508 | 100% |
| | 260608 | Seven Mile RTB - Roof Replacement | 496,699 | - | - | - | - | - | - | 496,699 | - | 496,699 | 100% |
| | 260609 | Seven Mile RTB - Parking Lot / Sitework | 429,557 | - | - | - | - | - | - | 429,557 | - | 429,557 | 100% |
| | 260610 | Baby Creek MAU Replacement | 275,151 | - | - | - | - | - | - | 275,151 | - | 275,151 | 100% |
| | 260611 | HVAC Improvements At Lieb SDF | 412,590 | - | - | - | - | - | - | 412,590 | - | 412,590 | 100% |
| | 260613 | Baby Creek HVAC Improvements | 545,401 | - | - | - | - | - | - | 545,401 | - | 545,401 | 100% |
| | 260614 | CSO Facilities Structural Improvements | 15,427,766 | 2,346,731 | 2,810,031 | 12,303,538 | 1,057,236 | - | 13,360,774 | - | - | 13,360,774 | 87% |
| | 260615 | PF & Lieb CSO Facilities Site & Drainage Improvements | 457,982 | - | - | - | - | - | - | 582,444 | - | 582,444 | 127% |
| | 260616 | Baby Creek SCO Anchor & Wedge Improvements | 771,846 | - | - | - | - | - | - | 770,114 | - | 770,114 | 100% |
| | 260617 | St. Aubin Chemical Disinfection Improvements | 417,052 | - | - | - | - | - | - | - | - | - | 0% |
| | 260618 | Oakwood HVAC Improvements | 6,933,584 | - | - | 5,620,944 | 28,148 | - | 5,649,092 | - | - | 5,649,092 | 81% |
| | 260619 | Control System Upgrade At St. Aubin, Lieb and 7 Mile | 7,972,657 | 3,868,475 | 3,868,475 | 1,050,133 | 85,290 | - | 1,135,423 | - | - | 1,135,423 | 14% |
| | 260620 | Baby Creek Roof Replacement | 984,552 | - | - | - | - | - | - | 984,552 | - | 984,552 | 100% |
| | 260621 | Connor Creek Berm Improvements | 2,255,349 | - | - | 4,749 | (2,374) | - | 2,374 | 2,244,862 | - | 2,247,237 | 100% |

Construction Work-in-Progress Quarterly Report

As of September 30, 2023

Great Lakes Water Authority

B4 - Wastewater System Construction Work-in-Progress (CWIP) FY 2024 Rollforward

Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project Category | Project | Project Name | Total Project Plan Estimate | FY 2024 Board Approved CIP | | | Activity through September 30, 2023 | FY 2024 Capitalizations And Other Activity Through September 30, 2023 | | | Life to Date Capitalizations And Other Activity | Life to Date Activity through September 30, 2023 | Life to Date Activity / Total Project Plan Estimate |
|---|---------|--|-----------------------------|----------------------------|---------------------------------------|---------------------------|-------------------------------------|---|---------------------------------|--------------------|---|--|---|
| | | | | FY 2024 Board Approved CIP | FY 2024 Board With Project Amendments | CWIP Balance July 1, 2023 | | FY 2024 Activity Through September 30, 2023 | CWIP Balance September 30, 2023 | | | | |
| Programs | 260622 | CSO Facilities Emergency Generator Improvements | 1,376,296 | - | - | 978,411 | 702 | - | 979,113 | - | - | 979,113 | 71% |
| | 260623 | Baby Creek Screen Rehabilitation | 2,393,230 | 1,048,740 | 1,048,740 | 1,447,517 | 107,159 | - | 1,554,675 | - | - | 1,554,675 | 65% |
| | 260700 | Sewer System Infrastructure Improvements & Pumping Stations | 1,025,068 | 49,456 | 49,456 | - | - | - | - | - | - | - | 0% |
| | 260701 | Conveyance System Infrastructure Improvements | 58,453,030 | 19,310,035 | 19,310,035 | 13,177,646 | 3,979,941 | - | 17,157,587 | - | - | 17,157,587 | 29% |
| | 260702 | Pump Station Assets Updates | 10,065,000 | - | - | - | - | - | - | - | - | - | 0% |
| | 260800 | WRRF Roof Replacement Program | 14,833,388 | - | - | - | - | - | - | - | - | - | 0% |
| | 260801 | WRRF Sludge Pump Station #3 Roof Replacement | 80,463 | - | - | - | - | - | - | 80,463 | - | 80,463 | 100% |
| | 260802 | 2022 WRRF Roof Improvements Project | 5,071,571 | 2,349,455 | 2,349,455 | 302,060 | 76,978 | - | 379,038 | - | - | 379,038 | 7% |
| | 260900 | WRRF Facility Optimization Program | 85,771,290 | 52,706 | 52,706 | - | - | - | - | - | - | - | 0% |
| | 260901 | Rehab. Hazmat Facility at WRRF | 3,506,846 | 1,409,318 | 1,409,318 | 329,597 | 39,737 | - | 369,334 | - | - | 369,334 | 11% |
| | 260902 | WRRF Renovation of 4th Floor | 3,719,708 | 1,043,763 | 1,043,763 | 3,143,292 | 118,447 | - | 3,261,739 | - | - | 3,261,739 | 88% |
| | 260903 | WRRF Front Entrance Rehab. | 7,817,069 | 2,475,342 | 2,475,342 | 367,597 | 17,446 | - | 385,043 | - | - | 385,043 | 5% |
| | 260904 | WRRF 3rd Floor Renovation | 3,546,009 | 14,026 | 14,026 | 68,417 | 30,506 | - | 98,922 | - | - | 98,922 | 3% |
| | 260905 | WRRF Plumbing Shop Rehab | 2,669,399 | 1,144,117 | 1,144,117 | 134,360 | 10,570 | - | 144,930 | - | - | 144,930 | 5% |
| | 261000 | WRRF Rehabilitation of Secondary Clarifiers | 41,637,242 | - | - | - | - | - | - | - | - | - | 0% |
| | 261001 | Rehabilitation of Secondary Clarifiers | 18,941,302 | 161,360 | 161,360 | 26,712 | 5,870 | - | 32,581 | - | - | 32,581 | 0% |
| Programs Total | | | 1,598,544,588 | 92,767,210 | 94,497,710 | 95,169,871 | 15,820,232 | - | 110,990,104 | 46,853,855 | - | 157,843,959 | 10% |
| Programs - Water | 171501 | Roof Replacements - Var Facilities Program | - | - | - | - | - | - | - | 83,000 | - | 83,000 | 0% |
| Programs - Water Total | | | - | - | - | - | - | - | - | 83,000 | - | 83,000 | 0% |
| Security | 341002 | Security Infrastructure Improvements | 2,362,970 | - | - | - | - | - | - | 3,200,851 | - | 3,200,851 | 135% |
| Security Total | | | 2,362,970 | - | - | - | - | - | - | 3,200,851 | - | 3,200,851 | 135% |
| Systems Control Center | 232001 | Fairview Pumping Station - Replace Four Sanitary Pumps | 46,124,283 | 2,479,602 | 2,479,602 | 43,849,170 | 681,996 | - | 44,531,166 | - | - | 44,531,166 | 97% |
| | 232002 | Freud and Connor Creek Pump Station Improvements | 464,091,911 | 21,815,785 | 21,815,785 | 12,238,422 | 233,782 | - | 12,472,204 | 6,103,686 | - | 18,575,890 | 4% |
| | 233003 | Rouge River In-system Storage Devices | 81,335,735 | - | - | - | - | - | - | - | - | - | 0% |
| Systems Control Center Total | | | 591,551,929 | 24,295,387 | 24,295,387 | 56,087,591 | 915,779 | - | 57,003,370 | 6,103,686 | - | 63,107,056 | 11% |
| Water Resource Recovery Facility | 211001 | Rehabilitation of Primary Clarifiers Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe Gallery | 54,737,713 | - | - | - | - | - | - | 54,748,738 | - | 54,748,738 | 100% |
| | 211002 | Pump Station No. 2 Pumping Improvments | 3,737,135 | 164,894 | 164,894 | 2,654,703 | 27,601 | 2,654,703 | 27,601 | 2,654,703 | - | 2,682,304 | 72% |
| | 211004 | Pump Station 1 Rack & Grit and MPI Sampling Station 1 Improvements | 28,488,884 | - | - | - | - | - | - | 27,895,001 | - | 27,895,001 | 98% |
| | 211005 | Pump Station No. 2 Improvements | 83,607,696 | 1,642,063 | 1,642,063 | 379,595 | 14,087 | - | 393,682 | - | - | 393,682 | 0% |
| | 211006 | Pump Station No. 1 Improvements | 110,959,522 | 15,843,863 | 22,296,763 | 11,410,932 | 1,698,417 | - | 13,109,349 | - | - | 13,109,349 | 12% |
| | 211007 | Replacement of Bar Racks and Grit Collection System at Pump Station No. 2 | 122,757,265 | 4,814,699 | 5,310,899 | 8,777,838 | 11,072 | - | 8,788,910 | - | - | 8,788,910 | 7% |
| | 211008 | Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines | 12,756,072 | 1,540,577 | 1,540,577 | 10,478,819 | 471,172 | - | 10,949,992 | - | - | 10,949,992 | 86% |
| | 211009 | Rehabilitation of the Circular Primary Clarifier Scum Removal System | 23,215,192 | - | - | 549,344 | - | - | 549,344 | - | - | 549,344 | 2% |
| | 211010 | Rehabilitation of Sludge Processing Complexes A and B | 14,104,223 | - | - | 94,337 | - | - | 94,337 | - | - | 94,337 | 1% |
| | 211011 | WRRF PS1 Screening and Grit Improvements | 99,386,498 | 1,637,866 | 1,637,866 | 27,289 | 17,394 | - | 44,683 | - | - | 44,683 | 0% |
| | 212003 | Aeration System Improvements | 16,524,875 | - | - | - | - | - | - | 16,524,875 | - | 16,524,875 | 100% |
| | 212004 | ProjectChlorination/Dechlorination Process Equipment Improvements | 5,650,501 | - | - | - | - | - | - | 5,652,101 | - | 5,652,101 | 100% |
| | 212006 | PC-797 Rouge River Outfall Disinfection and CS-1781 Oversight Consulting Services Contract | 43,788,731 | - | - | - | - | - | - | 43,788,731 | - | 43,788,731 | 100% |
| | 212007 | Rehabilitation of the Secondary Clarifiers | 2,645 | - | - | - | - | - | - | - | - | - | 0% |
| | 212008 | WRRF Rehabilitation of Intermediate Lift | 194,787,461 | 10,876,684 | 10,876,684 | 1,195,891 | 60,073 | - | 1,255,964 | - | - | 1,255,964 | 1% |
| | 212009 | WRRF Aeration Improvements 3 and 4 | 69,528,226 | - | - | - | - | - | - | - | - | - | 0% |
| | 212010 | WRRF Conversion of Disinfection of all Flow to Sodium Hypochlorite and Sodium Bisulfite | 6,231,557 | - | - | - | - | - | - | - | - | - | 0% |
| | 213006 | Improvements to Sludge Feed Pumps at Dewatering Facilities | 17,944,119 | 1,050,206 | 1,050,206 | 746,836 | 177,901 | - | 924,737 | - | - | 924,737 | 5% |
| | 213007 | Construction of the Improved Sludge Conveyance and Lighting System at the WWTP | 25,470,489 | 709,475 | 709,475 | 22,852,865 | 42,207 | - | 22,895,072 | - | - | 22,895,072 | 90% |
| | 213008 | Rehabilitation of the Wet and Dry Ash Handling Systems | 7,183,909 | - | - | 151,058 | - | - | 151,058 | - | - | 151,058 | 2% |
| | 213009 | Phosphorous Recovery Facility at the WRRF | 335,447,898 | - | - | 10,848 | (2,275) | - | 8,574 | - | - | 8,574 | 0% |
| | 214001 | Relocation of Industrial Waste Division and Analytical Laboratory Operations | 14,791,656 | - | - | - | - | - | - | 14,300,183 | - | 14,300,183 | 97% |
| | 216004 | Rehabilitation of Various Sampling Sites and PS# 2 Ferric Chloride System at WWTP | 8,555,862 | 195,840 | 195,840 | 7,723,935 | 231,916 | (55,620) | 8,011,471 | (55,620) | - | 7,955,851 | 93% |
| | 216006 | Rehabilitation of the Screened Final Effluent (SFE) Pump Station and Secondary Water System | 31,871,434 | 8,215,922 | 8,215,922 | 5,982,678 | 277,320 | - | 6,259,998 | - | - | 6,259,998 | 20% |
| | 216007 | DTE Primary Electric 3rd Feed Supply Line to the WRRF | 3,996,247 | - | - | - | - | - | - | 4,008,247 | - | 4,008,247 | 100% |
| | 216008 | Rehabilitation of Screened Final Effluent (SFE) Pump Station | 101,100,651 | 2,693,951 | 3,182,551 | 3,711,028 | 538,192 | - | 4,249,220 | - | - | 4,249,220 | 4% |
| | 216009 | Logistics & Material Facility | 289,862 | - | - | - | - | - | - | - | - | - | 0% |
| | 216010 | WRRF Facility Optimization | 2,003 | - | - | - | - | - | - | - | - | - | 0% |
| | 216011 | WRRF Structural Improvements | 17,185,482 | 3,259,348 | 3,259,348 | 1,733,060 | 671,517 | - | 2,404,577 | - | - | 2,404,577 | 14% |
| | 216012 | WRRF Research Facility | 228,119 | - | - | - | - | - | - | - | - | - | 0% |
| Water Resource Recovery Facility Total | | | 1,454,331,929 | 52,645,387 | 60,083,087 | 78,481,057 | 4,236,594 | 2,599,083 | 80,118,568 | 169,516,960 | - | 249,635,527 | 17% |
| Grand Total | | | 4,074,870,364 | 199,061,145 | 208,229,345 | 288,688,600 | 24,959,503 | 2,599,083 | 311,049,020 | 227,618,704 | - | 538,667,724 | 13% |

Appendix C - Project Amendment Summaries

The purpose of the Project Amendment Summary is to illustrate the amendments to the current fiscal year board approved CIP for each project with an amendment resulting from the use of allowance and program funding for a specific amount necessitated by contract award.

The award of CIP contracts and the related execution thereof may result in deviation from the amount and timing of planned spend. Acknowledging the aforementioned deviation, project amendments are prepared to fund the related increase or decrease either to or from the Capital Reserve to amend the current fiscal year board approved Capital Improvement Plan accordingly and to inform decision makers in the development of future Capital Improvement Plans. Similar to the project amendments prepared for the Capital Reserve, project amendments are also prepared for contracts that are planned or funded by way of the CIP Program and Allowance accounts. As additional contracts are awarded, and other project information becomes available additional project amendments to and from the Capital Reserve will be prepared to amend the board approved FY 2023 Capital Improvement Plan.

\$5,254,800 of Capital Reserve project amendments have been prepared as of September 30, 2023, as shown for the Water System in C1 – Water FY 2023 Project Amendment Summary with project amendments detailing the assignment of funding within Program and Allowance accounts.

\$9,168,200 of Capital Reserve project amendments have been prepared as of September 30, 2023, as shown for the Wastewater system in C2 – Wastewater FY 2023 Project Amendment Summary with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of these appendices on the subsequent pages are in ascending order by CIP project number.

Great Lakes Water Authority
C1 - Water System Project Amendment Summary
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project | Project Name | Capital Reserve | Grand Total |
|--------------------|--|------------------------|---------------------|
| 114002 | Springwells WTP Low and High Lift Improv | (500) | (500) |
| 111006 | Replace Instrumentation: LHWTP | 999,000 | 999,000 |
| 114017 | SPW WTP Flocculator Drive Replacement | 955,800 | 955,800 |
| 122006 | Transmission Work: Wick Road Parallel | 373,500 | 373,500 |
| 132010 | Division Valves at West Service Center | (687,300) | (687,300) |
| 132012 | Ypsilanti Pumping Station Improvements | 196,600 | 196,600 |
| 170500 | Program: Transmission Valve Assessment | (1,616,600) | (1,616,600) |
| 170503 | Transmission System Valve Replacement Pa | 2,869,900 | 2,869,900 |
| 170504 | Repair of WTM, Valves, & Priority Repair | 2,164,400 | 2,164,400 |
| Grand Total | | \$ 5,254,800 | \$ 5,254,800 |

Great Lakes Water Authority
C2 - Wastewater System Project Amendment Summary
Unaudited Activity For the Fiscal Quarter Ended September 30, 2023

| Project | Project Name | Capital Reserve | Grand Total |
|--------------------|---|------------------------|---------------------|
| 211006 | Pump Station #1 Main Lift Pumps Rehab | 6,452,900 | 6,452,900 |
| 211007 | Replacement of Bar Rack at Pump Station 2 | 496,200 | 496,200 |
| 216008 | Rehabilitation of SFE Pump Station | 488,600 | 488,600 |
| 260614 | CSO Facilities - Structural Improvements | 463,300 | 463,300 |
| 260204 | Eng Svcs for Rehab of Convey Sewer System | 772,400 | 772,400 |
| 260207 | Rehabilitation of Woodward Sewer System | 494,800 | 494,800 |
| Grand Total | \$ | 9,168,200 | \$ 9,168,200 |